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L. C. Hanson Company
Mine reclamation project in Richland and Dawson Counties, MT A/E 86-46-130,

FINAL REPORT

MINE RECLAMATION PROJECT IN RICHLAND AND DAWSON COUNTIES MT A/E 86-46-130

January, 1988

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FINAL REPORT

MINE RECLAMATION PROJECT IN RICHLAND AND DAWSON COUNTIES MT A/E 86-46-130

January, 1988

HARDSCRABBLE
SIDNEY AIRPORT
STRIP MINE A
CHIMNEY ROCK
NORTH HATFIELD

Prepared for:

MR. RICHARD JUNTUNEN, CHIEF
Abandoned Mine Reclamation Bureau
1625 11th Avenue
Helena, MT 59620

Prepared by:

L.C. HANSON COMPANY
Consulting Engineers
PO Box 299
Helena, MT 59624

TOM KLEMPEL, E.I.T.
Project Engineer

DAVE MCCLOY
Project Inspector

L. C. HANSON COMPANY
CONSULTING ENGINEERS & SURVEYORS
HELENA — GREAT FALLS — GLENDIVE

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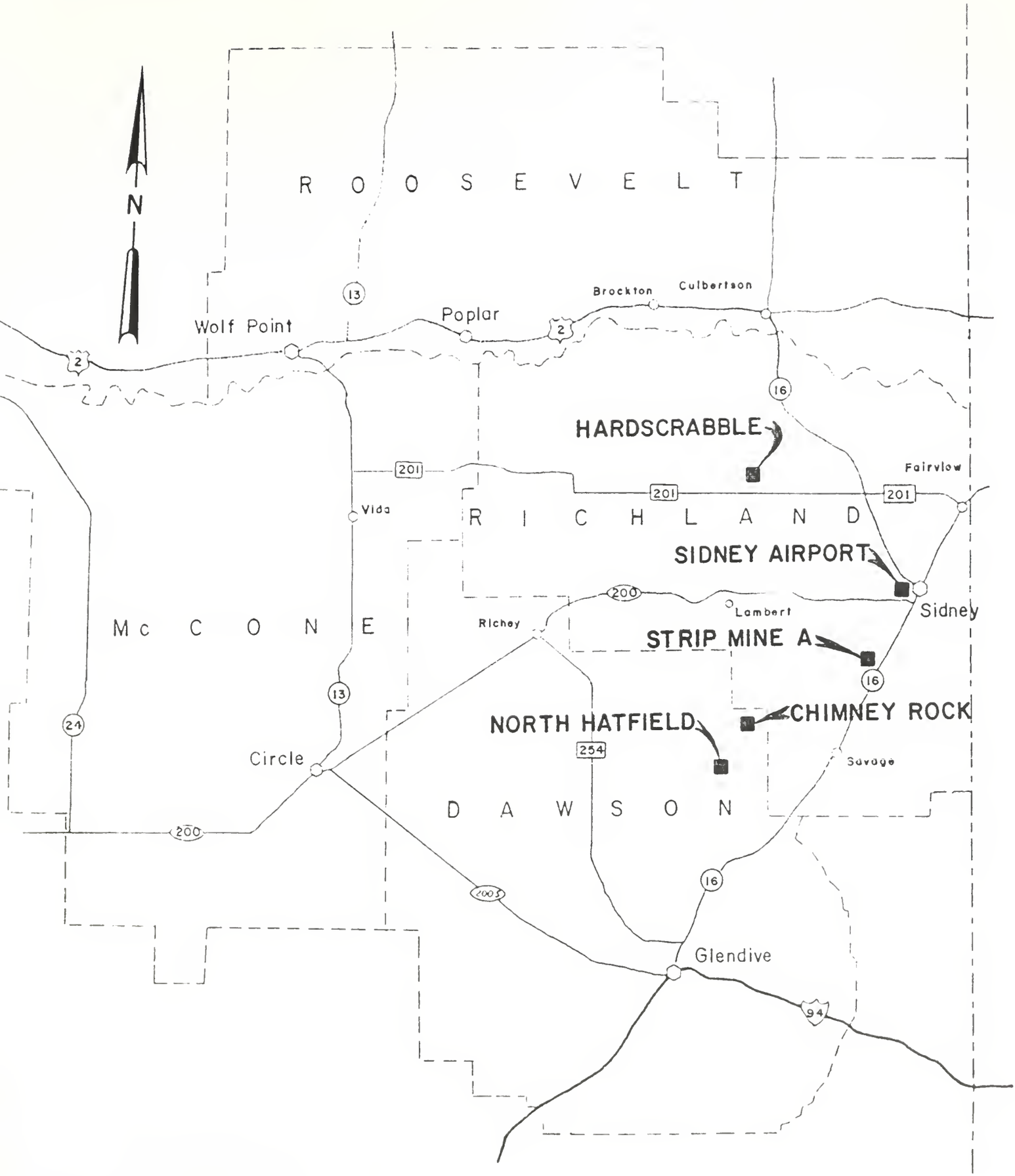

PROJECT LOCATION MAP

Prepared By
L. C. Hanson Co.
Consulting Engineers And Surveyors
Helena-Glendive-Great Falls

FINAL REPORT

MINE RECLAMATION PROJECT IN RICHLAND AND DAWSON COUNTIES

I. INTRODUCTION

A. Project Objectives

The mine reclamation project was undertaken to reduce public safety hazards resulting from unreclaimed mines. The objectives of the work were to close all mine openings, surface fill subsided areas, cleanup debris and recontour and revegetate barren waste piles. Reseeded areas were fenced where necessary to protect new growth from grazing animals.

B. History

Each of the five mines were primarily used for local coal consumption and all of the mines were in operation between 1920 and the 1950's. The HARDSCRABBLE MINE operated as an underground mine with an average annual production of about 2000 tons. The SIDNEY AIRPORT MINE was also an underground mine but was mostly used by the local ranchers/farmers during the winter months. STRIP MINE A was first developed as an underground mine, but as technology made it feasible to remove the overburden, the mine operators began mining the most accessible coal by strip mining. The CHIMNEY ROCK MINE was the largest subsurface mine in the area and was well known because of its large underground workings and the scenic "Chimney Rock" formation near the mine. The mine employed 3 full-time miners but was finally closed because of safety violations. The NORTH HATFIELD MINE was a small subsurface mine with one adit. A few local ranchers developed the mine for their own personal use during the winter. The total production of the mine was less than 1000 tons.

C. Project Location

- RICHLAND COUNTY MINES -

HARDSCRABBLE	Section 29 and S 1/2 Section 20 T25N R56E
SIDNEY AIRPORT	SE 1/4 Section 36 T23N R58E
STRIP MINE A	SE 1/4 Section 31 T21N R58E

- DAWSON COUNTY MINES -

CHIMNEY ROCK	NW 1/4 Section 11 T20N R56E
NORTH HATFIELD	N 1/2 Section 33 T20N R56E

D. Site Description and Problems

The mines are located in areas primarily used for agricultural

grazing; however, all of the mines are easily accessible to the public. Each of the mines had at least one open adit and evidence that visitors had been entering the mines. The sites also had open shafts, subsidence areas, scattered garbage and debris, waste piles and concrete structures. Local publicity of the abandoned and/or historic mines creates interest and "advertises" for an attractive nuisance.

II. DESCRIPTION OF PROJECT RECLAMATION

A. Project Planning

The planning for this project was similar to other reclamation projects completed by L.C. Hanson Company and the Montana Department of State Lands. Local borrow was available and of the soil type to allow closure of adits and shafts and for regrading, contouring and backfilling of subsided areas. Structures, debris and waste piles were disposed of off-site or buried on-site. Reclamation planning was the result of data gathered through aerial photography, landowner interviews, site visits, historical and courthouse records and research data.

B. Chronological History

Pre-Bid Conference	April 14, 1987
Bid Opening	April 28, 1987
Award to Contractor	May 4, 1987 (L.P. Anderson Contractor, Inc.)
Agreement	May 6, 1987
Notice to Proceed	May 22, 1987
Construction Began	June 18, 1987
Temporary Shutdown	July 24, 1987
Resume Work	October 12, 1987
Temporary Shutdown	October 13, 1987
Resume Work	November 6, 1987
Construction Completion	November 6, 1987

C. Equipment

Salvaging and replacing topsoil, grading and backfilling subsided areas, closing mine openings, disposing of waste piles, removing and burying debris/structures and bank caving were performed with the following equipment:

Caterpillar D-7 Dozer
Terex TS-14 Scraper
Caterpillar 966 Front-end Loader
Bantam Hydraulic Excavator w/4 C.Y. bucket
Ford Tandem Truck w/2400 gallon water tank

Revegetation was completed with the following equipment:

Oliver 1800 Farm Tractor
John Deere 4040 Farm Tractor
John Deere 6' Disc w/harrow
John Deere 6' Custom Grass Drill
Bowie 6' Crimp Disc
Mechanical Mulcher

D. Construction Operations

Except for the revegetation in the fall, reclamation on each mine was completed before beginning another site. The order of work included in the project documents was followed by the Contractor for each site and was as follows:

Debris cleanup and removal of structures were the first items of work performed on each site. Some sites required gathering debris by hand while other mines had debris large enough in volume and size to require a truck, front-end loader and dozer to remove. Following debris cleanup and removal of structures, topsoil was stripped from all areas of excavation or embankment. The D-7 dozer and TS-14 scraper removed and stockpiled topsoil in accessible areas and topsoil from within subsidence or rough terrain was removed with the excavator or front-end loader.

Subsidence grading and recontouring were completed with the TS-14 scraper and D-7 dozer. Backfilling subsidence required hauling with the dump truck or front-end loader. Both operations used the water truck and tire-mounted equipment for compaction. Waste piles were disposed by burying in suitable backfilling or grading areas. The D-7 dozer and excavator sealed open adits with a minimum 10' of cover; open shafts had all debris removed and were then backfilled the entire depth. Following all excavation and embankment work items, topsoil was replaced to a uniform depth over all disturbed areas with the TS-14 scraper. The revegetation required 4 separate operations to complete. A farm tractor prepared the seedbed with a John Deere disc and harrow. The seedbed was then fertilized and seeded in a single operation with the John Deere custom grass drill. A farm tractor pulled the mechanical mulcher which spread the straw mulch from a 700-1000# bale. The mulch was then tucked with the Bowie crimp disc.

III. COST SUMMARY

A. Final Payment Request and Reconciliation Change Order

A copy of the Final Payment Request and Reconciliation Change Order are contained in Appendix A. These documents contain the final quantities and costs for each work item.

B. Change Orders

Change Order No. 1

Item #1 (HARDSCRABBLE MINE) - the Landowner and access owner requested that a different access route be used instead of the access they proposed on the original Plan. The new access required upgrading and revegetating.

Item #2 (SIDNEY AIRPORT MINE) - The designed adit closure appeared to be only temporary due to instability of the shallow overburden above the adit area. The adit was daylighted to the point where competent overburden would allow a permanent adit closure.

Item #3 (STRIP MINE A) - Subsidence grading revealed additional unstable ground due to mine collapse. The grading limits were extended to stabilize the additional affected area.

Item #4 (CHIMNEY ROCK MINE) - An additional adit and a longer exposed coal seam discovered during construction required further reclamation efforts.

All of the work items for Change Order No. 1 were completed at equipment rental rates as outlined in the Proposal.

Change Order No. 2

Item #1 (NORTH HATFIELD MINE) - This small mine was originally included in the construction Contract but deleted prior to the bid opening because of a construction schedule conflict with the Landowners. The schedule problem was resolved and the work was completed at equipment rental rates and contract unit prices.

Item #2 (ALL SITES) - Reconciliation of final quantities.

C. Costs Per Site/Unit

COST SUMMARY
HARDSCRABBLE MINE

ITEM	*TOTAL COST	UNITS	COST/UNIT
MOBILIZATION	$1800.00	SITE	$1800.00/SITE
DEBRIS CLEANUP	$2000.00	SITE	$2000.00/SITE
REMOVAL OF STRUCTURES	$1000.00	SITE	$1000.00/SITE
SALVAGE AND REPLACE TOPSOIL	$4871.00	2706 CY	$ 1.80/CY
CLOSE MINE OPENINGS			
- ADITS	$1140.00	3 EACH	$ 380.00/ADIT
- SHAFTS	$ 855.00	3 EACH	$ 285.00/SHAFT
WASTE PILE DISPOSAL	$ 100.00	25 CY	$ 4.00/CY
SUBSIDENCE BACKFILL	$1541.00	1340 CY	$ 1.15/CY
SUBSIDENCE GRADING	$2755.00	2840 CY	$ 0.97/CY
PROVIDE WATER	$ 845.00	26.4 MGAL	$ 32.00/MGAL
REVEGETATION	$7219.00	4.0 ACRES	$1805.00/ACRE
TOTAL	$24,126.00	4.0 ACRES	$6031.50/ACRE

* Rounded to nearest whole dollar

COST SUMMARY
SIDNEY AIRPORT MINE

ITEM	*TOTAL COST	UNITS	COST/UNIT
MOBILIZATION	$ 500.00	SITE	$ 500.00/SITE
SALVAGE AND REPLACE TOPSOIL	$ 371.00	206 CY	$ 1.80/CY
SUBSIDENCE BACKFILL	$ 136.00	68 CY	$ 2.00/CY
WASTE PILE DISPOSAL	$ 750.00	722 CY	$ 1.04/CY
CLOSE MINE OPENINGS			
- ADIT	$ 380.00	1 EACH	$ 380.00/ADIT
- SHAFT	$ 250.00	1 EACH	$ 250.00/SHAFT
PROVIDE WATER	$ 77.00	2.4 MGAL	$ 32.00/MGAL
REVEGETATION	$1106.00	.7 ACRE	$1580.00/ACRE
FARM FENCE**	$1405.00	980 LF	$ 1.43/LF
TOTAL	$4975.00	0.7 ACRES	$7107.14/ACRE

* Rounded to nearest whole dollar
** Includes gates, double and single panels

COST SUMMARY
STRIP MINE A

ITEM	*TOTAL COST	UNITS	COST/UNIT
MOBILIZATION	$ 500.00	SITE	$ 500.00/SITE
DEBRIS CLEANUP	$ 600.00	SITE	$ 600.00/SITE
SALVAGE AND REPLACE TOPSOIL	$ 873.00	485 CY	$ 1.80/CY
SUBSIDENCE GRADING	$ 950.00	1000 CY	$ 0.95/CY
CLOSE MINE OPENINGS - ADIT	$ 380.00	1 EACH	$ 380.00/ADIT
PROVIDE WATER	$ 154.00	4.8 MGAL	$ 32.00/MGAL
REVEGETATION	$ 926.00	.6 ACRE	$1543.00/ACRE
TOTAL	$4383.00	0.6 ACRES	$7305.00/ACRE

* Rounded to nearest whole dollar

COST SUMMARY
CHIMNEY ROCK MINE

ITEM	*TOTAL COST	UNITS	COST/UNIT
MOBILIZATION	$ 850.00	SITE	$ 850.00/SITE
SALVAGE AND REPLACE TOPSOIL	$1481.00	823 CY	$ 1.80/CY
SUBSIDENCE GRADING	$2350.00	2000 CY	$ 1.18/CY
CLOSE MINE OPENINGS - ADIT	$ 760.00	2 EACH	$ 380.00/ADIT
PROVIDE WATER	$ 216.00	12.0 MGAL	$ 18.00/MGAL
REVEGETATION	$3348.00	1.6 ACRES	$2093.00/ACRE
TOTAL	$9005.00	1.6 ACRES	$5628.13/ACRE

* Rounded to nearest whole dollar

IV. SUMMARY

A. Completed Reclamation

The reclamation work was completed 116% over the Contract bid price and 8% under the Contract time. The TOTAL COST of the project was $47,296.32. Total time used was 66 calendar days.

B. Comments

L.P. Anderson Contractor, Inc. completed all the work with full cooperation and to a high level of workmanship. The five projects involved 9 landowners and the Contractor's effort to cooperate with them helped the jobs progress smoothly. The completed project complies with the Contract requirements and L.C. Hanson Company has recommended acceptance of the project to the Montana Department of State Lands.

V. SLIDES

The Slide Log and Slides are contained in Appendix B.

APPENDIX A

Payment Request No. 2 (Final)

RECEIVED
NOV 23 1987
L.C. HANSON CO.

From: July 25, 1987 To: November 16, 1987

Project Name: Mine Reclamation Project (5 sites)

Location: Richland & Dawson Co. Project No.: MT 86-46-130

Name Of Contractor: L.P. Anderson Address: PO Box 1106, Glendive, Mt. 59330

Summary Of Project Status

Amount of Original Contract	$40,839.18
Amount of Approved Change Order(s)	6,457.14
TOTAL CONTRACT AMOUNT	47,296.32
Contract Time Used to Date	67 Days
Percentage of Contract Time Used	92%
Percentage of Contract Amount Earned	100%

Original Contract Amount Completed	42,488.32
Change Order(s) Amount Completed	4,808.00
Amount for Materials On Site	0.00
TOTAL To Date	47,296.32
Times 90% =	No retainage
TOTAL AMOUNT Earned To Date	47,296.32
Less Previous Amount Earned	41,113.05
Amount Payable This Period	6,183.27
Less 1% Gross Receipts Tax	61.83
TOTAL DUE CONTRACTOR THIS PERIOD	$6,121.44

Requested By: L.P. Anderson Contractor by Bonnie L. Mossi Date: 11/17/87
(Contractor)

Checked By: L.C. Hanson Co. Allen W. Nye Date: 11/19/87
(Engineer)

Approved By: Department of State Lands L. McNally Date: 11/20/87
Abandoned Mine Reclamation Bureau (Owner)

PAY REQUEST NO. 2 (Final)

L.C Harbor Co.

PROJECT: Mine Reclamation Project (5 acres) MCNT A/E 80-46-101 Page 1 Of 1

Schedule I - Reclaimable ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	TOTAL COST OF COMPLETED WORK	% OF EST. QUANT. COMP.
1	Mobilization	1.0 L.S.	1900.00	0.00	1.00	1900.00	100*
2	Debris Cleanup	1.0 L.S.	2000.00	0.00	1.00	2000.00	100*
3	Revival of Structures	1.0 L.S.	1000.00	0.00	1.00	1000.00	100*
4	Salvage & Replace Topsoil	1600.0 C.Y.	1.80	0.00	2706.00	4870.80	100*
5	Close Mine Openings						
a	a.Adits	3.0 EACH	380.00	0.00	3.00	1140.00	100*
b	b.Shafts	3.0 EACH	285.00	0.00	3.00	855.00	100*
6	Waste Pile Disposal	1.0 L.S.	100.00	0.00	1.00	100.00	100*
7	Subsidence Backfill	455.0 C.Y.	1.15	0.00	1340.00	1541.00	100*
8	Subsidence Grading	1.0 L.S.	2754.80	0.00	1.00	2754.80	100*
9	Provide Water	80.0 M GAL.	32.00	0.00	25.40	844.80	100*
10	Fertilizer	420.0 LBS.	0.34	372.10	372.10	126.51	100*
11	Seed	120.0 LBS.	22.50	108.30	108.30	2436.75	100*
12	Mulch	13500.0 LBS.	0.39	0.00	11940.00	4656.60	100*
	Sub-Total Reclaimable					24124.26	

* Work completed on this item

PAY REQUEST NO. 2 (Final)

L.C Hanson Co.

PROJECT: Mine Reclamation Project (5 sites) MDNT A/E 95-4e-170 Page 3 OF 6

Schedule II - Sidney Airport ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	TOTAL COST OF COMPLETED WORK	% OF EST. QUANT. COMP.
1	Mobilization	1.0 L.S.	500.00	0.17	1.00	500.00	100*
2	Salvage & Replace Topsoil	207.0 C.Y.	1.80	0.00	206.00	370.80	100*
3	Subsidence Backfill	30.0 C.Y.	2.30	0.00	65.00	136.00	100*
4	Waste Pile Disposal	1.0 L.S.	750.00	0.00	1.00	750.00	100*
5	Close Mine Openings						
0	a.Adit	1.0 EACH	380.00	0.00	1.00	380.00	100*
0	b.Shaft	1.0 EACH	250.00	0.00	1.00	250.00	100*
6	Provide Water	9.0 MGAL.	32.00	0.00	2.40	76.80	100*
7	Fertilizer	64.8 LBS.	0.34	61.70	61.70	20.98	100*
8	Seed	14.7 LBS.	22.50	13.90	13.90	312.75	100*
9	Mulch	2100.0 LBS.	0.39	0.00	1980.00	772.20	100*
10	F-3M Farm Fence	704.0 L.F.	0.77	0.00	980.00	754.60	100*
11	F-3 Gate	32.0 L.F.	2.70	0.00	32.00	86.40	100*
12	Double Panel	4.0 EACH	92.00	0.00	3.00	276.00	100*
13	Single Panel	4.0 EACH	72.00	0.00	4.00	288.00	100*
	Sub-Total Sidney Airport					4974.53	

* Work completed on this item

PAY REQUEST NO. 2 (Final)

L.C Hansen Co.

PROJECT: Mine Reclamation Project (5 sites) MONT A E 86-4a-170 Page 4 Of 5

Schedule III - Strip Mine A ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	TOTAL COST OF COMPLETED WORK	% OF EST. QUANT. COMP.
1	Mobilization	1.0 L.S.	500.00	0.28	1.00	500.00	100*
2	Debris Cleanup	1.0 L.S.	600.00	0.00	1.00	600.00	100*
3	Salvage & Replace Topsoil	400.0 C.Y.	1.80	0.00	484.76	872.57	100*
4	Subsidence Grading	1.0 L.S.	950.00	0.00	1.00	950.00	100*
5	Close Mine Openings						
0	a.Adit	1.0 EACH	380.00	0.00	1.00	380.00	100*
6	Provide Water	20.0 MGAL.	32.00	0.00	4.80	153.60	100*
7	Fertilizer	78.6 LBS.	0.34	51.40	51.40	17.48	100*
8	Seed	17.7 LBS.	22.50	11.80	11.80	265.50	100*
9	Mulch	2550.0 LBS.	0.39	0.00	1650.00	643.50	100*
	Sub-Total Strip Mine A					4382.64	

* Work completed on this item

PAY REQUEST NO. 2 (Final)

L.D. Larson Co.

PROJECT: Mine Reclamation Project (5 sites) MONT A-E 3a-4a-130

Schedule IV - Chimney Rock ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	TOTAL COST OF COMPLETED WORK	% OF EST. QUANT. COMP.
1	Mobilization	1.0 L.S.	950.00	0.05	1.00	950.00	100*
2	Salvage & Replace Topsoil	550.0 C.Y.	1.50	0.00	822.60	1480.68	100*
3	Subsidence Grading	1.0 L.S.	2350.00	0.00	1.00	2350.00	100*
4	Close Mine Openings						
0	a.Adit	1.0 EACH	760.00	0.00	2.00	760.00	100*
5	Provide Water	54.0 MEAL.	18.00	0.00	12.00	216.00	100*
6	Fertilizer	70.3 LBS.	0.34	151.50	151.50	51.51	100*
7	Seed	16.0 LBS.	22.50	34.20	34.20	769.50	100*
8	Mulch	2280.0 LBS.	0.39	0.00	6480.00	2527.20	100*
	Sub-Total Chimney Rock					9304.89	
	Total 4 sites					42488.32	

* Work completed on this item

PAY REQUEST NO. 2 (Final)

L.J Hanson Co.

PROJECT: Mine Reclamation Project (S a.tes) MONT A/E 8a-4a-120 Page a Of a

ITEMIZATION OF QUANTITIES AND COSTS

ITEM NO.	DESCRIPTION	ESTIMATED PLAN QUANTITY	UNIT BID PRICE	UNITS OF WORK COMPLETED THIS REQUEST	UNITS OF WORK COMPLETED TO DATE	TOTAL COST OF COMPLETED WORK	% OF EST. QUANT. COMP.
1	Change Order No. 1						
	a.Worth Hatfield Mine Work						
	1.Transport Truck w/Lowboy	2.8 HRS.	66.00	2.75	2.75	187.00	100*
	2.CAT D-7 Dozer	7.0 HRS.	82.00	7.00	7.00	574.00	100*
	3.Dump Truck - 2 Ton	9.5 HRS.	65.00	9.50	9.50	617.50	100*
	4.Fertilizer	28.1 LBS.	0.34	28.10	28.10	9.55	100*
	5.Seed	6.3 LBS.	22.50	6.30	6.30	141.75	100*
	6.Mulch	900.0 LBS.	0.39	900.00	900.00	351.00	100*
	Subtotal - Worth Hatfield					1880.80	
	b.Reconciliation of						
	Final Quantities	1.0 L.S.	1649.14	1.00	1.00	1649.14	100*
	Total					3529.94	

* Work completed on this item

SECTION II

2.12 CHANGE ORDER Order No. 2

Date: November 13, 1987

Agreement Date: May 6, 1987

NAME OF PROJECT: MINE RECLAMATION PROJECT - FIVE (5) SITES

Richland and Dawson Counties

OWNER: Montana Dept. of State Lands - AMR Bureau

CONTRACTOR: L.P. ANDERSON CONTRACTOR, INC. PO Box 1106 Glendive, MT 59330

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1.	NORTH HATFIELD MINE						
	Transport truck w/lowboy	Incl.	Incl.	2.75HR	Incl.	68.00	187.00
	"CAT" D-7 Dozer	Incl.	Incl.	7.00HR	Incl.	82.00	574.00
	2-ton Dump Truck	Incl.	Incl.	9.50HR	Incl.	65.00	617.50
	Fertilizer	28.1#	Incl.	Incl.	Incl.	0.34	9.55
	Seed } Contract Unit	6.3#	Incl.	Incl.	Incl.	22.50	141.75
	Mulch } Bid Prices	900.0#	Incl.	Incl.	Incl.	0.39	351.00
	Sub-Total - NORTH HATFIELD MINE						S 1380.80
2.	RECONCILIATION OF FINAL QUANTITIES (See Attached Sheets for Breakdown)						+S 1649.14

TOTAL COST - MAT'LS, LABOR, EQUIPMENT & MISC.	+S 3529.94
OVERHEAD & PROFIT @ N/A %	-0-
GRAND TOTAL - THIS CHANGE ORDER	+ 3529.94

Original Contract Price	S 40,839.18
Current Contract Price Adjusted by Previous Change Order	43,766.38
Cost This Change Order (+ or -)	+ 3,529.94
New Contract Price Including This Change Order	S 47,296.32

The completion date as set forth in the Contract Documents shall be (unchanged, increased, decreased) by One (1) calendar days.

The date for completion of all work will be N/A.

Description and Justification for Change:

1. ITEM 1

Description: The work consisted of the closure of one (1) mine adit. Included in this was the mobilization of men and equipment, salvaging and replacing topsoil, seeding, fertilizing and mulching.

Justification: Dept. of State Lands secured consent for reclamation on an additional mine near other existing reclamation projects.

ITEM 2

Description and Justification: Reconciliation of actual quantities to estimated quantities because of varying field conditions.

SURETY CONSENT

The surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bond or Bonds is hereby increased by Three Thousand Five Hundred Twenty Nine and 94/100 ($ 3,529.94) (One hundred percent (100%) of the Change Order amount) and the penalty of the applicable Payment Bond or Bonds is hereby increased by Three Thousand Five Hundred Twenty Nine and 94/100 ($ 3,529.94) (One hundred percent (100%) of the Change Order amount).

COUNTERSIGNED BY MONTANA RESIDENT AGENT

W. A. Mitchell Agency

W. A. Mitchell

SURETY

United States Fidelity & Guaranty Co.,

BY: Kenneth H. Bowers (Seal)

Recommended by: L. C. Hanson Company Allan W. Tye, Engineer Date 11/13/87

Accepted by: L & L Underwater Contractors Inc Wayne L. Morris, Contractor 11/17/87

Approved by: DSL - S McNally, Owner 11/20/87

Change Order No. 2
MINE RECLAMATION PROJECT FIVE (5) SITES
MT A/E 86-46-130

RECONCILIATION OF FINAL QUANTITIES

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	ACTUAL QUANTITY	CHANGE IN PRICE	
(HARDSCRABBLE MINE)					
4.	SALVAGE AND REPLACE TOPSOIL	1600.0 C.Y.	2706.0 C.Y.	+$	1990.80
7.	SUBSIDENCE BACKFILL	455.0 C.Y.	1340.0 C.Y.	+	1017.25
9.	PROVIDE WATER	80.0 MGAL	26.4 MGAL	-	1715.20
10.	FERTILIZER	420.0 LBS	372.1 LBS	-	16.29
11.	SEED	120.0 LBS	108.3 LBS	-	263.25
12.	MULCH	13,500.0 LBS	11,940.0 LBS	-	608.40
		Sub-Total - HARDSCRABBLE MINE		+$	405.41
(SIDNEY AIRPORT MINE)					
2.	SALVAGE AND REPLACE TOPSOIL	207.0 C.Y.	206.0 C.Y.	-$	1.80
3.	SUBSIDENCE BACKFILL	30.0 C.Y.	68.0 C.Y.	+	76.00
6.	PROVIDE WATER	9.0 MGAL	2.4 MGAL	-	211.20
7.	FERTILIZER	64.8 LBS	61.7 LBS	-	1.05
8.	SEED	14.7 LBS	13.9 LBS	-	18.00
9.	MULCH	2100.0 LBS	1980.0 LBS	-	46.80
10.	FARM FENCE F-3M	704.0 L.F.	980.0 L.F.	+	212.52
12.	DOUBLE PANEL	4 EACH	3 EACH	-	92.00
		Sub-Total - SIDNEY AIRPORT MINE		-$	82.33

Change Order No. 2
MINE RECLAMATION PROJECT FIVE (5) SITES
MT A/E 86-46-130

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	ACTUAL QUANTITY	CHANGE IN PRICE	
(STRIP MINE A)					
3.	SALVAGE AND REPLACE TOPSOIL	400.0 C.Y.	484.76 C.Y.	+$	152.57
6.	PROVIDE WATER	20.0 MGAL	4.80 MGAL	-	486.40
7.	FERTILIZER	78.6 LBS	51.4 LBS	-	9.25
8.	SEED	17.9 LBS	11.8 LBS	-	137.25
9.	MULCH	2550.0 LBS	1650.0 LBS	-	351.00
		Sub-Total - STRIP MINE A		-$	831.33
(CHIMENY ROCK MINE)					
2.	SALVAGE AND REPLACE TOPSOIL	560.0 C.Y.	822.6 C.Y.	+$	472.68
4.	CLOSE MINE OPENINGS (ADIT)	1 EACH	2 EACH	+	380.00
5.	PROVIDE WATER	54.8 MGAL	12.0 MGAL	-	770.40
6.	FERTILIZER	70.3 LBS	151.5 LBS	+	27.61
7.	SEED	16.0 LBS	34.2 LBS	+	409.50
8.	MULCH	2280.0 LBS.	6480.0 LBS	+	1638.00
		Sub-Total - CHIMNEY ROCK MINE		+$	2157.39
		RECONCILIATION TOTAL		+$	1649.14

APPENDIX B

SLIDE LOG

MINE RECLAMATION PROJECT IN RICHLAND AND DAWSON COUNTIES
FIVE (5) SITES

2.	July 1987	Sidney Airport Mine	Scraper removing coal slack for burial
3.	July 1987	Sidney Airport Mine	Dozer burying coal slack
4.	July 1987	Strip Mine A	Excavator and front-end loader salvaging topsoil
5.	July 1987	Strip Mine A	Excavator and front-end loader salvaging topsoil
6.	July 1987	Strip Mine A	Dozer and front-end loader salvaging topsoil
7.	July 1987	Strip Mine A	Scraper placing backfill on subsidence grading area
8.	July 1987	Chimney Rock Mine	Beginning adit closure
9.	July 1987	Chimney Rock Mine	Subsidence grading area
10.	July 1987	Chimney Rock Mine	Improving access for adit closure
11.	July 1987	Chimney Rock Mine	Historic "Chimney Rock" near mine
12.	July 1987	Chimney Rock Mine	Completed subsidence grading area
13.	July 1987	Chimney Rock Mine	Completed adit closure
14.	July 1987	Chimney Rock Mine	Completed adit closure
15.	Nov 1987	North Hatfield Mine	Exposed coal seam and open adit
16.	Nov 1987	North Hatfield Mine	Dozer closing adit
17.	Nov 1987	North Hatfield Mine	Dozer closing adit
18.	Nov 1987	North Hatfield Mine	Adit closure complete
19.	Nov 1987	North Hatfield Mine	Adit closure complete

APPENDIX C

ANALYSIS OF PROFESSIONAL SERVICE FEES
DATE OF PREPARATION: January 11, 1987
PROJECT: Mine Reclamation Project (5 Sites)

PROFESSIONAL SERVICE	AMOUNT
* Data Gathering, Site Evaluation, Preliminary Engineering, Final Engineering, Bidding Documents	$27,165.16
* Construction Administration, Construction Inspection, Final Report Preparation	$12,063.89
L.C. HANSON CO. COSTS	$39,229.05
CONSTRUCTION COSTS	$47,296.32

PERCENTAGE ANALYSIS

PRE-CONST. LCH CO COST/CONSTRUCTION COST	57.44%
CONST. & POST CONST. LCH CO. COST/CONSTRUCTION COST	25.51%
TOTAL LCH CO. COST/CONSTRUCTION COST	82.94%

REMARKS: Services provided include lien determination, landowner consent, budget preparation, grant application, weed board approval, basic engineering, construction staking, contract administration, quantity accounting and full time resident inspection. This project involved five different sites with seven different landowners. Consent for exploration and reclamation was difficult to obtain. The individual sites were initially planned as separate projects and the bidding documents were prepared separately. Prior to the bidding phase it was determined that the projects should be combined into one construction project thereby achieving a savings in administrative costs during the construction phase.